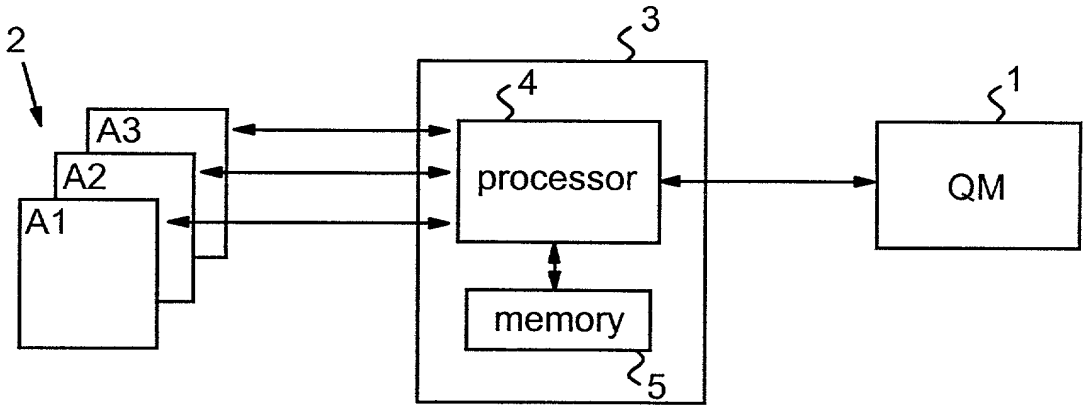

Figure 1

PROXY LIST			RESOURCE POOL	
Proxy	Type	Reservation/ Allocation	Handle	Type
pc1	conn "QM"	hc3	hc1	conn "QM"
p15	queue "Q5"	h35	h11	queue "Q1"
p16	queue "Q6"	h36	h12	queue "Q2"
pc2	conn "QM"	?hc2	?hc2	conn "QM"
p23	queue "Q3"	?h23	?h23	queue "Q3"
			h24	queue "Q4"

Figure 2

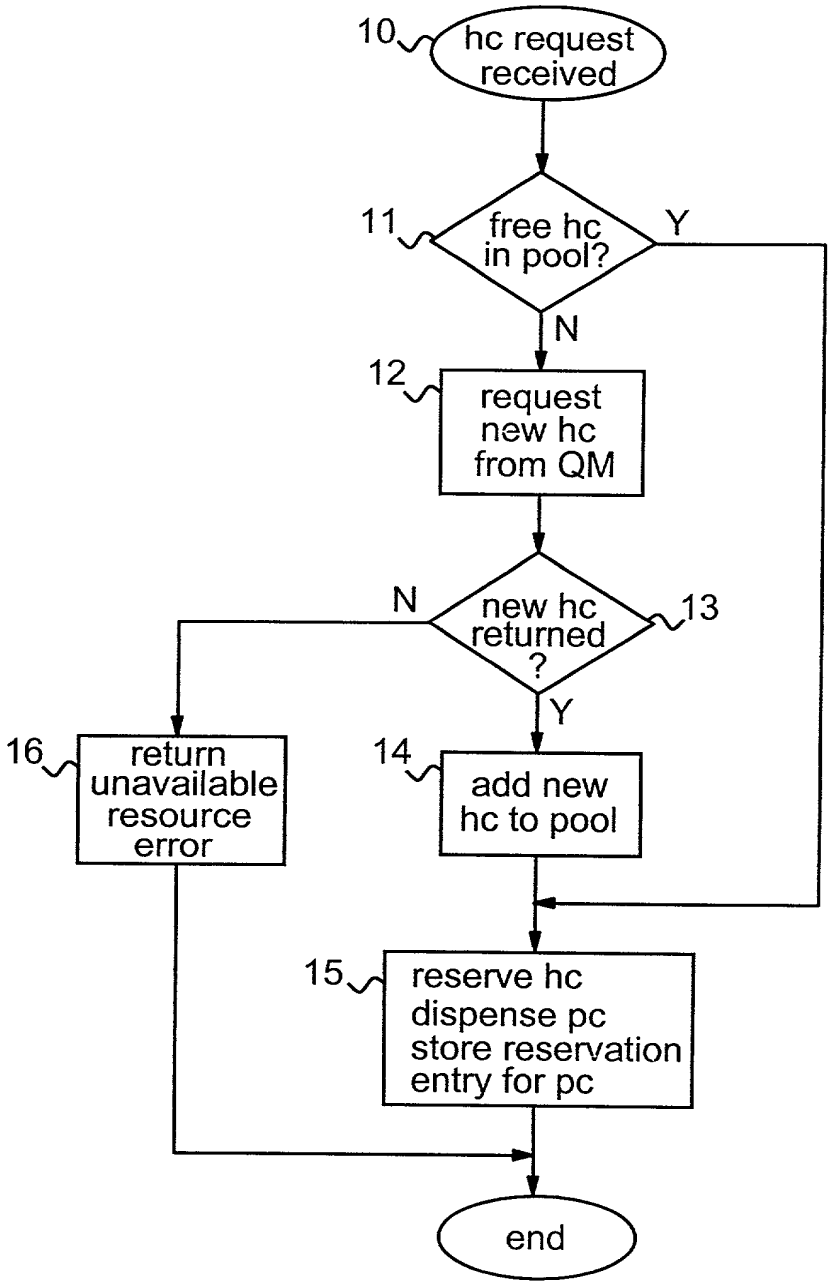
10
hc request received
11
free hc in pool?
Y
N
12
request new hc from QM
N
new hc returned ?
13
Y
16
return unavailable resource error
14
add new hc to pool
15
reserve hc
dispense pc
store reservation entry for pc
end

Figure 3

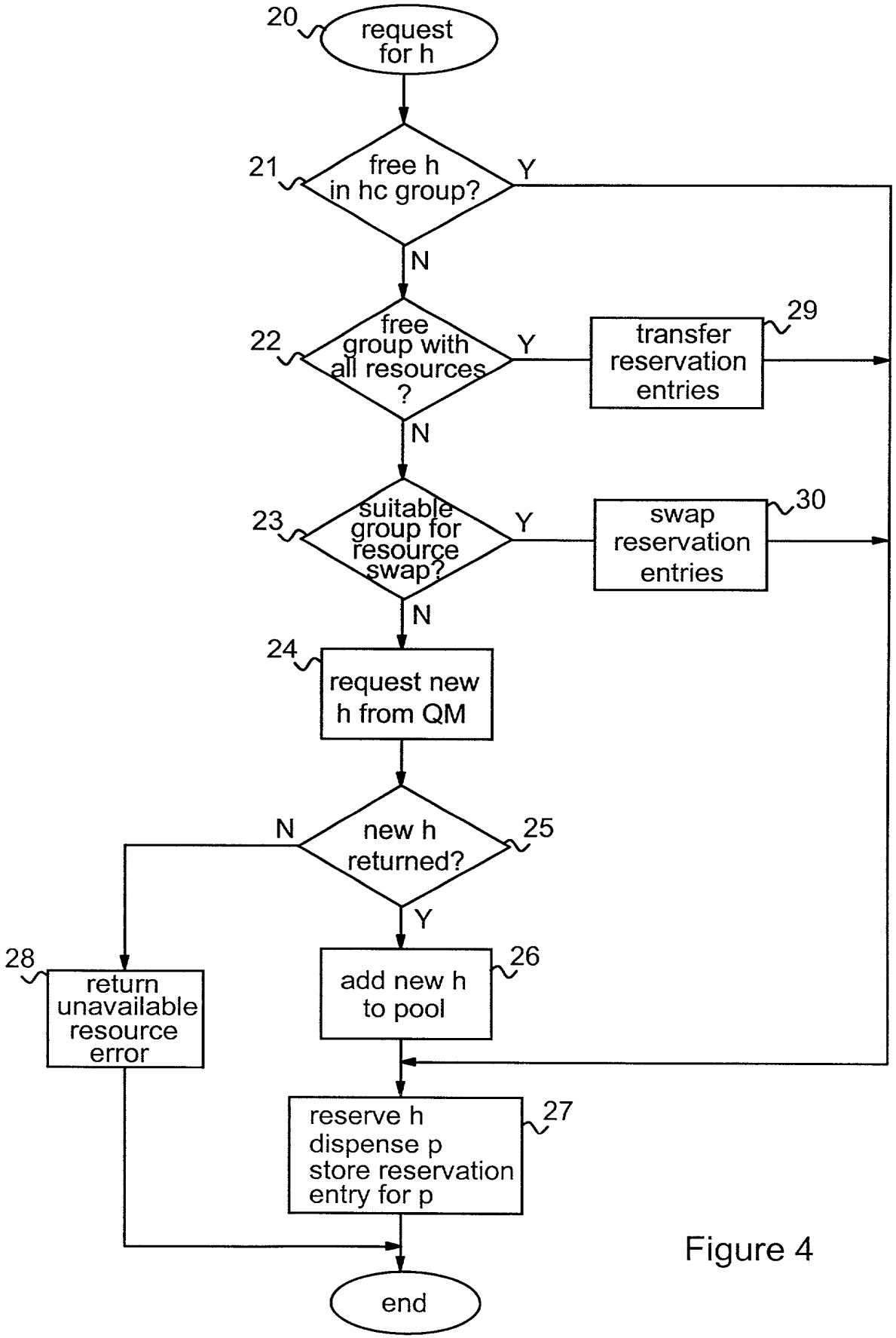
20
request for h
21
free h in hc group?
Y
N
22
free group with all resources ?
Y
29
transfer reservation entries
N
23
suitable group for resource swap?
Y
30
swap reservation entries
N
24
request new h from QM
N
new h returned?
25
Y
28
return unavailable resource error
add new h to pool
26
reserve h
dispense p
store reservation entry for p
27
end

Figure 4

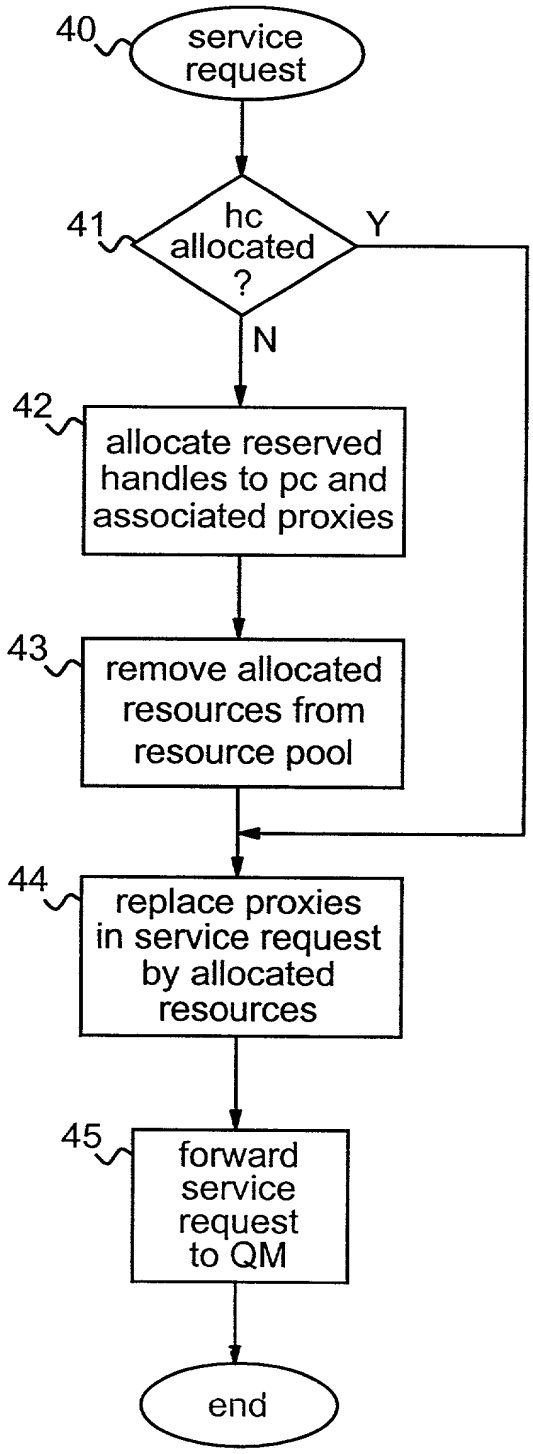
40
service request
41
hc allocated ?
Y
N
42
allocate reserved handles to pc and associated proxies
43
remove allocated resources from resource pool
44
replace proxies in service request by allocated resources
45
forward service request to QM
end

Figure 5